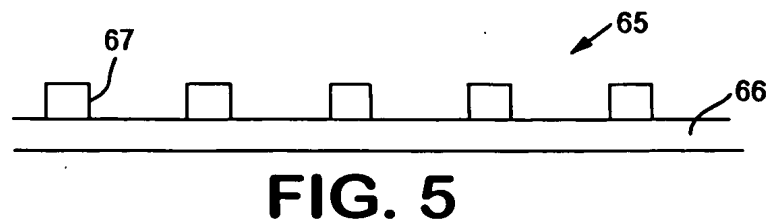
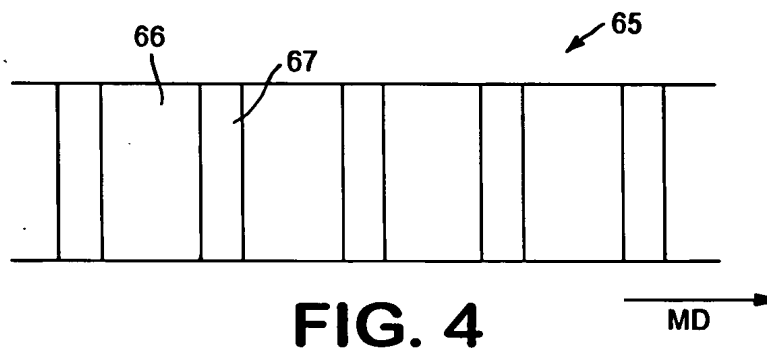
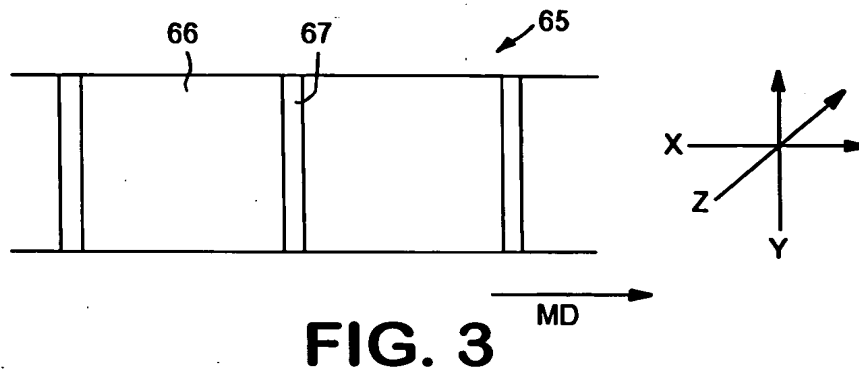
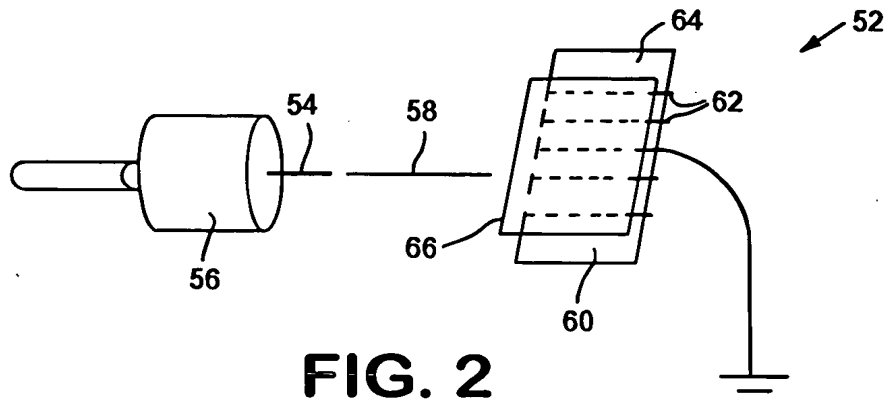


FIG. 1



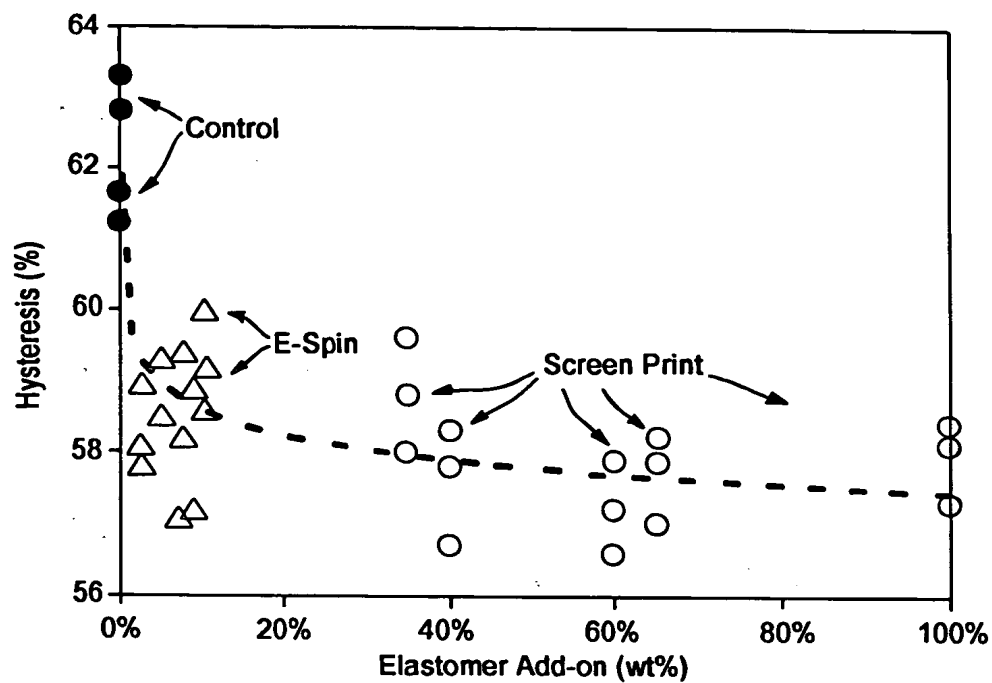


FIG. 6

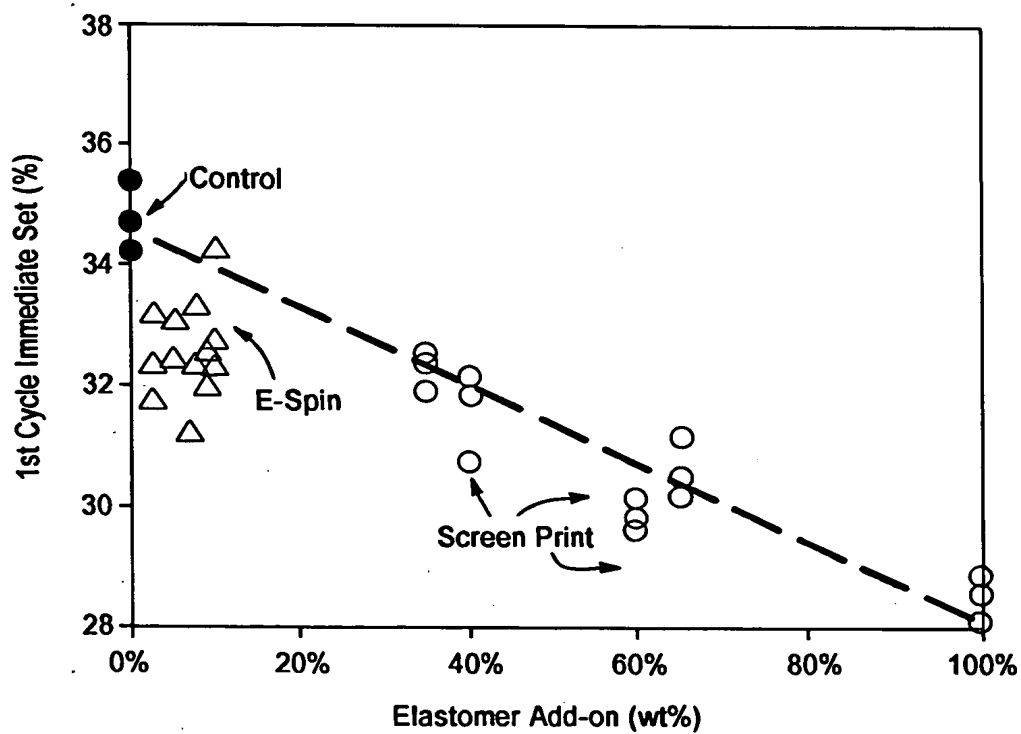


FIG. 7

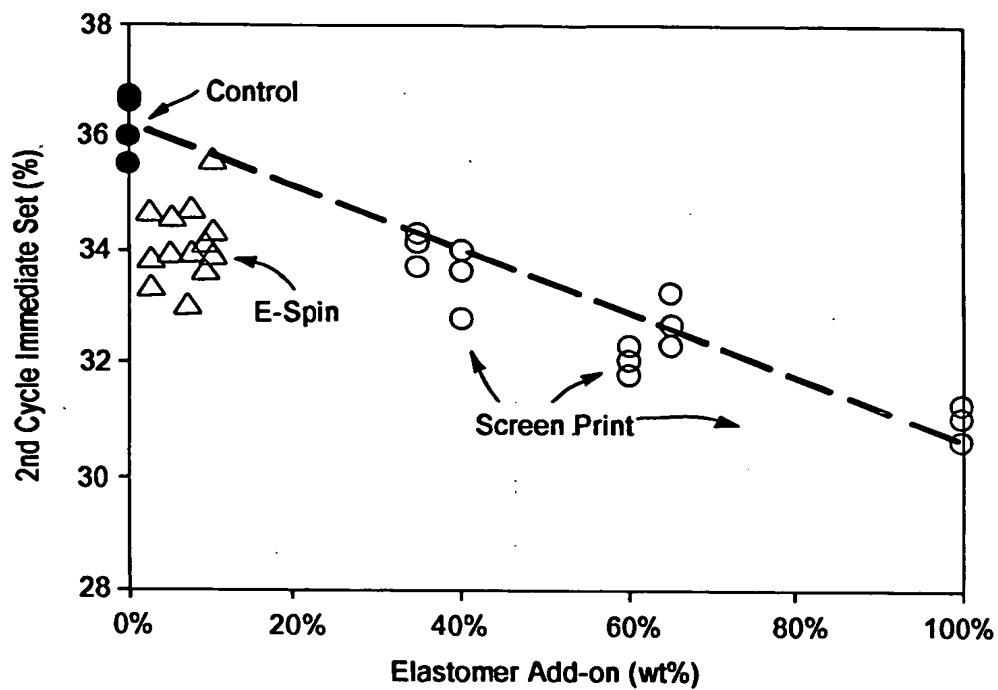


FIG. 8

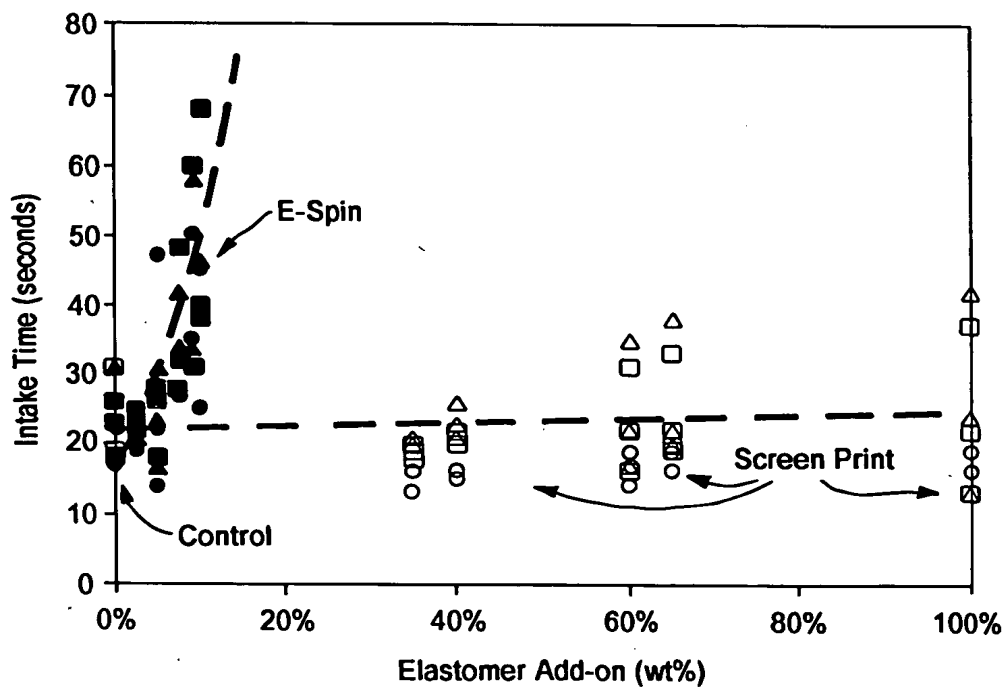


FIG. 9

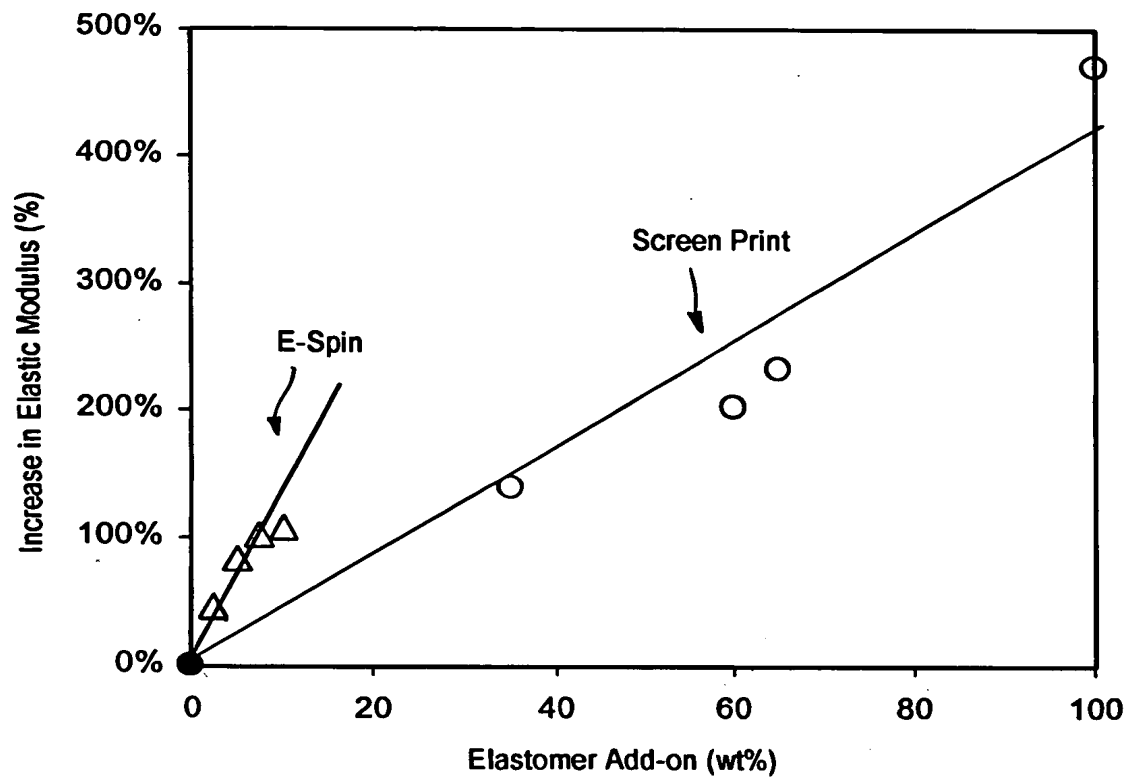


FIG. 10

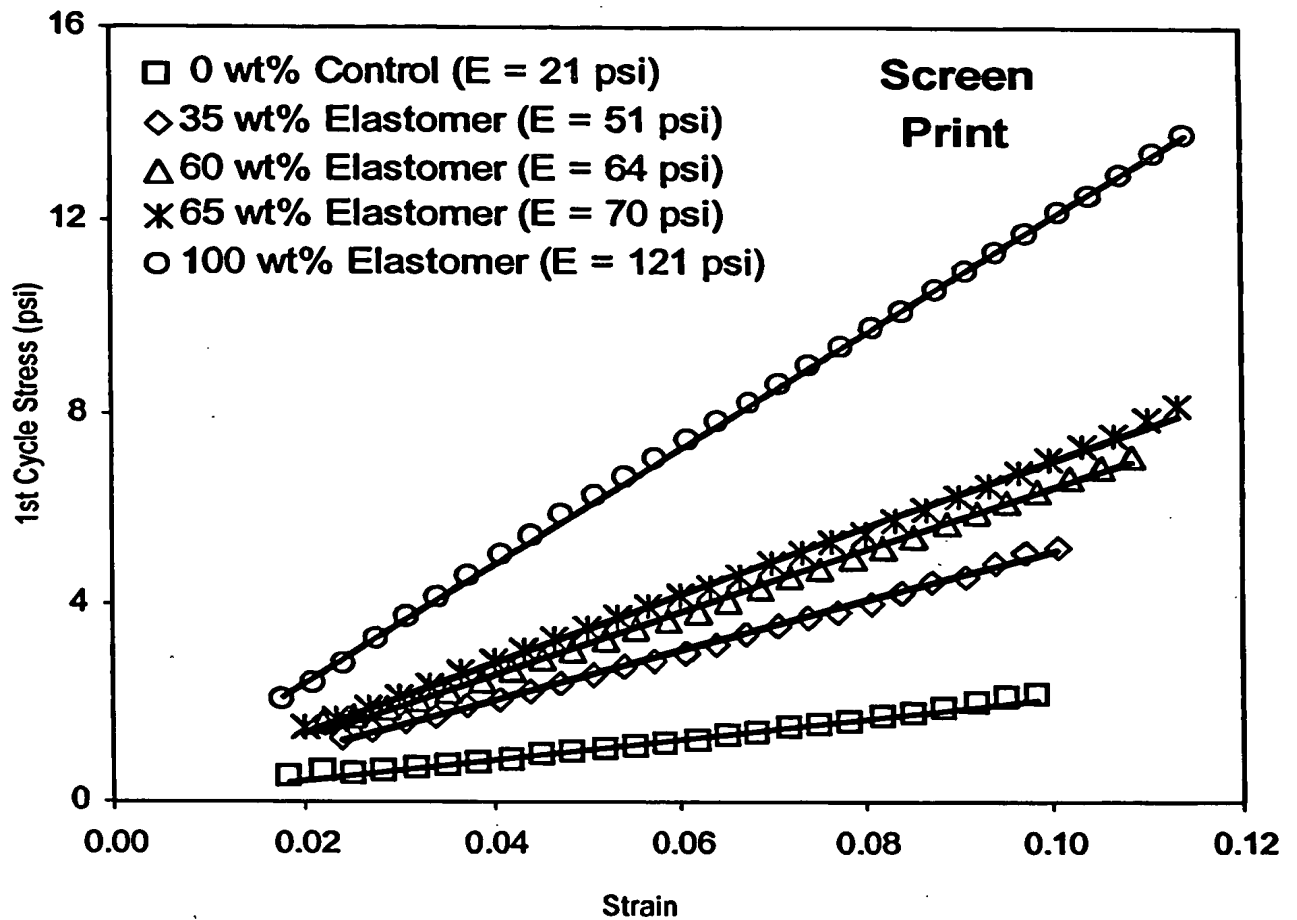


FIG. 11

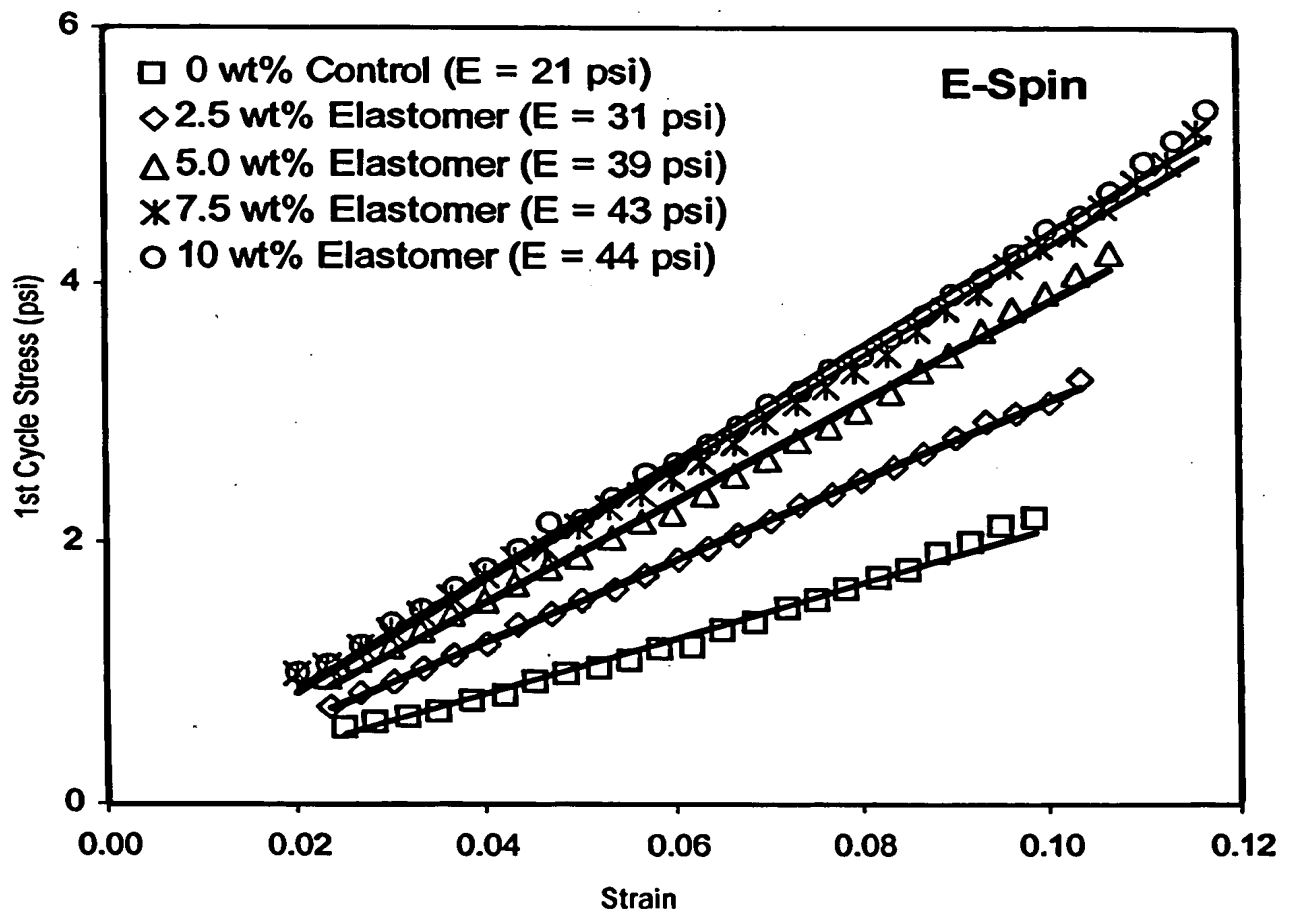


FIG. 12

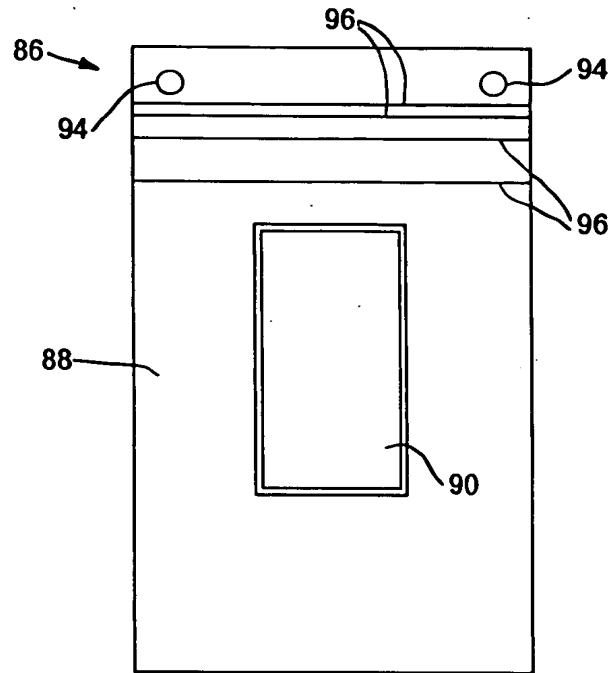


FIG. 13

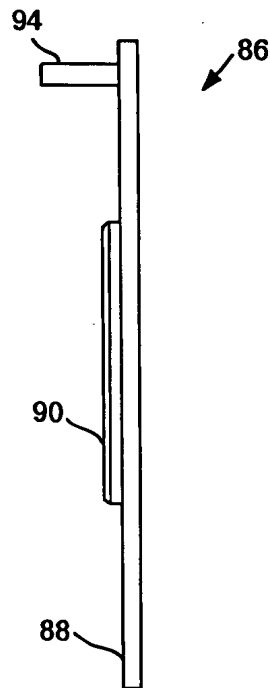


FIG. 14

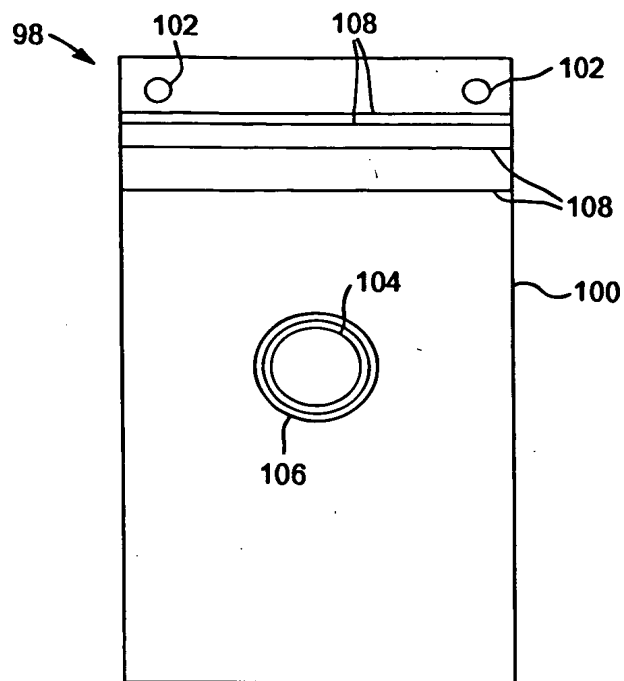


FIG. 15

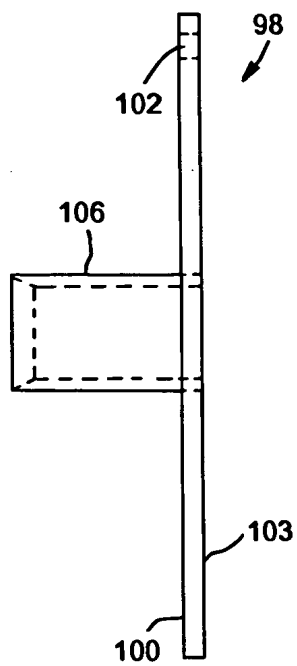


FIG. 16

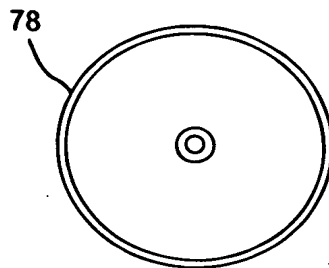


FIG. 17

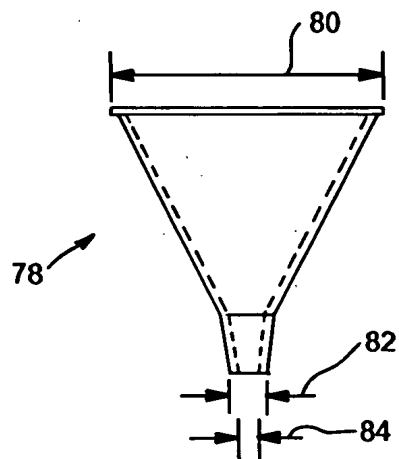


FIG. 18

Specm. No.	Kraton add-on wt%	Load @ 30 Up Cye 1 gf	Load @ 50 Up Cye-1 gf	Load @ 30 Dn Cye 1 gf	Load @ 50 Dn Cye 1 gf	TEA (Ext) Cye 1 kg-mm	TEA (Ret) Cye 1 kg-mm	% Hyster Loss Cye 1 %	Load @ 30 Up Cye 2 gf	Load @ 50 Up Cye 2 gf	Load @ 30 Dn Cye 2 gf	Load @ 50 Dn Cye 2 gf	TEA (Ext) Cye 2 kg-mm	TEA (Ret) Cye 2 kg-mm	% Hyster Loss Cye 2 %	Immed Set % Cye 1	Immed Set % Cye 2	Load Loss at 50% gf
Control	1	0.0%	335	831	-18	678	0.194	0.033	33	767	-22	655	0.086	0.032	63.3	35.387	36.7	210.974
	2	0.0%	473	964	-15	787	0.254	0.042	58	888	-21	759	0.11	0.042	61.6	34.199	35.538	212.451
	3	0.0%	409	934	-17	763	0.227	0.041	42	862	-22	738	0.103	0.04	61.2	34.692	36.025	210.054
	4	0.0%	373	861	-18	697	0.208	0.035	34	789	-23	673	0.091	0.034	62.8	35.341	36.599	218.703
1%	1	35.0%	480	933	-3	760	0.26	0.049	73	848	-10	726	0.112	0.045	59.6	32.512	34.27	222.332
	2	35.0%	539	1049	-3	851	0.292	0.055	78	950	-10	809	0.125	0.051	58.8	32.37	34.144	228.89
	3	35.0%	601	1154	0	939	0.323	0.06	88	1051	-9	899	0.14	0.059	58	31.867	33.689	220.98
2%	1	65.0%	516	1008	3	832	0.279	0.059	95	916	-7	787	0.128	0.054	58.2	31.151	33.206	219.291
	2	65.0%	618	1088	6	889	0.323	0.063	116	980	-5	842	0.142	0.06	57.9	30.488	32.668	211.628
	3	65.0%	670	1198	9	987	0.353	0.072	123	1092	-4	941	0.158	0.068	57	30.132	32.298	214.511
3%	1	40.0%	629	1138	5	941	0.332	0.069	107	1041	-6	899	0.147	0.064	56.7	30.714	32.775	210.6
	2	40.0%	550	1069	-2	878	0.293	0.057	77	977	-10	833	0.13	0.055	57.8	32.119	33.98	220.908
	3	40.0%	520	953	0	790	0.272	0.052	83	873	-9	750	0.119	0.05	58.3	31.793	33.639	212.73
4%	1	100.0%	687	1142	19	930	0.366	0.069	148	1016	4	875	0.155	0.064	58.4	28.52	31.069	233.821
	2	100.0%	708	1192	18	983	0.373	0.072	150	1071	2	922	0.164	0.07	57.3	28.817	31.26	226.97
	3	100.0%	731	1184	23	976	0.385	0.073	168	1062	6	906	0.168	0.07	58.1	28.065	30.633	234.636
5%	1	60.0%	619	1133	9	926	0.329	0.065	115	1031	-2	890	0.146	0.063	57.2	30.133	32.303	215.08
	2	60.0%	676	1154	11	950	0.352	0.068	130	1052	-2	897	0.154	0.065	57.9	29.761	32.053	222.192
	3	60.0%	758	1339	13	1094	0.398	0.078	140	1219	-1	1052	0.177	0.077	56.6	29.602	31.805	213.999

Table 1

Spcn. No.	Krypton add-on wt%	Load @ 30 Up Cye 1	Load @ 50 Up Cye 1	Load @ 30 Dn Cye 1	Load @ 50 Dn Cye 1	TEA (Ext) Cye 1	TEA (Ret) Cye 1	% Hyster Loss Cye 1	Load @ 30 Up Cye 2	Load @ 50 Up Cye 2	Load @ 30 Dn Cye 2	Load @ 50 Dn Cye 2	TEA (Ext) Cye 2	TEA (Ret) Cye 2	% Hyster Loss Cye 2	Immed Set % Cye 1	Immed Set % Cye 2	Load Loss at 50% gr
1	10.0%	262	854	-7	594	0.183	0.039	78.5	40	782	-11	667	0.09	0.037	59.2	34.324	35.629	218.854
2	10.0%	581	1077	-8	883	0.301	0.052	82.6	86	992	-16	844	0.132	0.053	60	32.762	34.328	216.312
3	10.0%	614	1161	-6	956	0.319	0.06	81.3	90	1068	-13	919	0.143	0.059	58.6	32.315	33.914	207.838
1	5.0%	162	664	-10	536	0.129	0.027	79.2	25	611	-14	514	0.066	0.025	62	35.958	37.13	226.497
2	5.0%	396	861	-6	707	0.22	0.044	80.1	59	797	-10	680	0.102	0.042	59.3	33.075	34.616	211.206
3	5.0%	498	934	-3	767	0.262	0.05	80.8	76	859	-9	738	0.116	0.048	58.5	32.447	33.969	210.292
1	2.5%	611	1107	-4	920	0.317	0.059	81.4	88	1025	-12	879	0.138	0.058	57.8	32.348	33.898	205.988
2	2.5%	549	1057	0	867	0.29	0.056	80.6	86	971	-6	827	0.132	0.055	58.1	31.77	33.37	217.485
3	2.5%	447	960	-6	787	0.248	0.05	79.7	61	886	-12	761	0.112	0.046	58.9	33.194	34.722	207.293
1	7.5%	531	1037	-3	846	0.285	0.055	80.7	76	956	-8	814	0.126	0.053	58.2	32.363	33.964	214.699
2	7.5%	601	1113	2	919	0.311	0.062	80	101	1027	-6	885	0.144	0.062	57.1	31.253	33.019	204.361
3	7.5%	444	903	-7	742	0.239	0.043	82	61	836	-12	712	0.107	0.043	59.4	33.349	34.768	211.468
1	9.0%	512	954	-1	777	0.27	0.051	80.9	83	873	-8	744	0.118	0.049	58.9	31.996	33.648	219.88
2	9.0%	493	1084	-4	890	0.278	0.059	78.9	70	1004	-9	852	0.131	0.056	57.2	32.586	34.158	214.45
3	9.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Mechanical Properties of Screen Printed Materials

	Elastomer Add-on wt%	% Hyster Loss Cyc 1 %	% Reduction vs Control %	Immed Set % Cyc 1 %	% Reduction vs Control %	Immed Set % Cyc 2 %	% Reduction vs Control %	Modulus of Elasticity psi	Improve vs Control %
Control	0%	83%	N/A	35%	N/A	36%	N/A	21	N/A
Sample 1sp	35%	81%	2%	32%	10%	34%	6%	51	140%
Sample 3sp	40%	80%	3%	32%	11%	33%	7%	-	-
Sample 5sp	60%	81%	3%	30%	16%	32%	11%	64	200%
Sample 2sp	65%	80%	4%	31%	14%	33%	9%	70	230%
Sample 4sp	100%	81%	2%	28%	20%	31%	14%	121	470%

Table 3

Mechanical Properties of E-Spin Materials

	Elastomer Add-on wt%	% Hyster Loss Cyc 1 %	% Reduction vs Control %	Immed Set % Cyc 1 %	% Reduction vs Control %	Immed Set % Cyc 2 %	% Reduction vs Control %	Modulus of Elasticity psi	% Improve vs Control %
Control	0%	83%	N/A	35%	N/A	36%	N/A	21	N/A
Sample 6es	2.5%	81%	3%	32%	8%	34%	6%	31	40%
Sample 7es	5%	80%	3%	34%	4%	35%	2%	39	80%
Sample 8es	7.5%	81%	2%	32%	9%	34%	6%	43	100%
Sample 10es	9%	80%	4%	32%	10%	34%	6%	-	-
Sample 6es	10%	81%	2%	33%	6%	35%	4%	44	100%

Table 4